

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	530	search\$4 near5 (patent intellectual adj property) near5 (database\$2 data adj base\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/16 15:42
L2	150	1 and @ad<"20000727"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/16 15:42

DERWENT-ACC-NO: 1999-272054

DERWENT-WEEK: 199923

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TITLE: Automatic patent-extracting production system
- has patent extract storing unit that extracts
predetermined data e.g. application data, detailed summary,
drawing data to automatically generate a patent
extract, and registers extract into patent database

PATENT-ASSIGNEE: NEC CORP [NIDE]

PRIORITY-DATA: 1997JP-0257601 (September 5, 1997)

PATENT-FAMILY:

PUB-NO	MAIN-IPC	PUB-DATE	LANGUAGE
PAGES JP 004	A G06F 017/30	March 30, 1999	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE JP 11085799A September 5, 1997	N/A	1997JP-0257601

INT-CL (IPC): G06F017/30

ABSTRACTED-PUB-NO: JP 11085799A

BASIC-ABSTRACT:

NOVELTY - A patent extract storing unit (103) extracts predetermined data e.g. application data, detailed summary, drawing data to automatically generate a patent extract. The patent extract is then registered into the patent database. DETAILED DESCRIPTION - A patent document storing unit (102) classifies every documented application, detailed statements, detailed summary,

and detailed drawing of the patent document input into a terminal equipment,
and stores the data into a patent database (104).

USE - For automatically generating document of particular patent.

ADVANTAGE - Reduces processing burden. Reduces time required for loading and observing search document since amount of documents that needs to be confirmed are reduced. DESCRIPTION OF DRAWING(S) - The figure shows the structural diagram of the automatic patent-extracting production system. (102) Patent document storing unit; (103) Patent extract storing unit; (104) Patent database.

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS: AUTOMATIC PATENT EXTRACT PRODUCE SYSTEM PATENT EXTRACT
STORAGE

UNIT EXTRACT PREDETERMINED DATA APPLY DATA DETAIL SUMMARY
DRAW DATA AUTOMATIC GENERATE PATENT EXTRACT REGISTER EXTRACT PATENT
DATABASE

DERWENT-CLASS : T01

EPI-CODES: T01-J05B4P;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1999-203619

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CLAIMS

[Claim(s)]

[Claim 1] The patent extract creation automatic creation method characterized by having a means to store in a database the patent extract which extracted information from the application which constitutes said patent document, the epitome, and the drawing, carried out automatic creation and this created the patent extract on the occasion of bag creation processing of a patent document.

[Claim 2] A patent document storing means to classify for every document of an application, a specification, an epitome, and a drawing from the patent document inputted into the terminal unit on the occasion of package creation of a patent document, and to store in a patent bag database, The patent extract creation automatic creation method characterized by having a patent extract storing means to extract predetermined information from the application outputted from said patent document storing means, an epitome, and drawing information, to generate a patent extract automatically, and to register said generated patent extract to said patent bag database.

[Claim 3] (a) The patent document storing processing which classifies for every document of an application, a specification, an epitome, and a drawing from the inputted patent document, and is stored in a patent bag database, And extract predetermined information from the application outputted from the (b) aforementioned patent document storing means, an epitome, and drawing information, and a patent extract is generated automatically. The record medium which recorded the program which performs each processing of the above (a) of processing ** which registers said generated patent extract into said patent bag database, and (b) by computer.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] About the method which generates a document automatically, especially, this invention is used for automatic creation of a patent extract, and relates to a suitable method.

[0002]

[Description of the Prior Art] Conventionally, in management by the electronization of a patent document, the whole patent document (an application, a specification, a drawing, epitome) was stored in file equipment, and retrieval processing was performed about the whole patent document. For this reason, the time amount which retrieval processing of a patent document takes with increase of the patent document kept increases.

[0003] Although that check to which application of the same kind is not carried out is performed in case bag processing is performed and subsequent patent application is performed in order to manage a patent document in patent application operating processing in a company etc., when retrieval processing takes a load and time amount, in having searched the patent application specification whole sentence at this time, the activity man day which visual inspection of a specification and a drawing takes also increases. In addition, although an abstract etc. can be obtained about the patent document after application public presentation, for example using service of patent information retrieval system, such as PATOLIS, information is not acquired about the patent application before application public presentation.

[0004]

[Problem(s) to be Solved by the Invention] It described above, and as carried out, in the conventional approach, it has the trouble of the following publication.

[0005] The 1st trouble is that the retrieval processing time in retrieval processing of a patent document increases.

[0006] The reason is for the time amount and the load which processing takes to increase in order to perform retrieval processing to the whole document for retrieval.

[0007] The 2nd trouble is that the load and activity man day of visual inspection business of a retrieval relevance document increase.

[0008] The reason is for having to check the whole document, when checking the document applicable to retrieval visually.

[0009] Therefore, this invention is made in view of the above-mentioned trouble, and the purpose is in offering the patent extract automatic generation method which mitigates the load of retrieval processing and visual inspection processing by carrying out automatic creation and keeping an extract from a patent document, at the time of bag creation processing.

[0010]

[Means for Solving the Problem] In order to attain said purpose, this invention creates the patent extract of a predetermined format at the time of patent bag processing, stores the created patent extract in it, and is made to search from an application, a drawing, and an epitome at it to the this stored extract.

[0011]

[Embodiment of the Invention] The gestalt of operation of this invention is explained. The patent extract creation automatic creation method of this invention is set in the gestalt of the desirable operation. A patent document storing means to classify for every documents, such as a document which indicated an application, the specification, the epitome, the drawing, the chemical formula, etc. from the patent document inputted into the terminal unit (101 of drawing 1), and to store in a patent bag database (104 of drawing 1) (102 of drawing

1), Predetermined information is extracted from the application outputted from said patent document storing means, an epitome, and drawing information, a patent extract is generated automatically, and it has a patent extract storing means (103 of drawing 1) to register said generated patent extract to said patent bag database. In addition, each above-mentioned means 102 and 103 are realizable with the program executed by computer which constitutes a terminal unit.

[0012] In the gestalt of operation of this invention, at the time of patent bag processing, automatic creation of a patent extract is performed from an application, a drawing, and an epitome, it is made to perform storing in a database, and mitigation of the load at the time of retrieval and compaction of the retrieval processing time can be aimed at by searching the created patent extract.

[0013] Moreover, since the contents can be simply checked in case the searched patent document is checked with a help, mitigation of an operator's load can be aimed at.

[0014]

[Example] The gestalt of operation of above-mentioned this invention is explained below with reference to a drawing about one example of this invention that it should explain to a detail further. Drawing 1 is drawing showing the configuration of one example of this invention. If drawing 1 is referred to, one example of this invention will be equipped with the terminal application 101, the drive equipment (FDD) of a floppy disk 105, the patent document storing task (program) 102, the patent extract storing task (program) 103, and the patent bag database 104, and will be constituted, and concurrent access of the patent bag database 104 will be made it is desirable and possible.

[0015] Drawing 2 is drawing for explaining actuation of one example of this invention. Actuation of one example of this invention is explained with reference to drawing 2 R> 2.

[0016] Reference of drawing 2 inputs the input of the patent document stored in the floppy disk 105 from the floppy disk drive unit connected to the terminal 101 (** of drawing 2 R> 2). A patent document consists of a document which indicated an application, the specification, the epitome, the drawing, or the chemical formula.

[0017] The patent document storing task 102 starts after a patent document input (** of drawing 2).

[0018] In the patent document storing task 102, division of the document unit of a patent document, a character code, etc. are changed, and it outputs to a file 106 (** of drawing 2).

[0019] In the patent extract creation task 103, from the document generated by the patent document storing task 102, an application, an epitome, and a drawing are read and a patent extract is generated. A patent extract can be constituted here including the application date extracted from the application, the name of invention, an artificer name, an applicant, the technical problem extracted from the epitome, a solution means, the drawing information on a selection Fig., etc.

[0020] The patent document drawn up by the patent document storing task 102 is stored in the patent bag database 104 (** of drawing 2 R> 2).

[0021] The patent extract generated by the patent extract creation task 103 is stored in the patent bag database 104 (** of drawing 2).

[0022] As for the terminal application 101, the patent document storing task 102, and the patent extract storing task 103, it is desirable to use it by dialogic operation.

[0023] Moreover, in the patent bag database 103, it is supposed that it is more nearly accessible than a terminal 101.

[0024] In this example, in order for retrieval of a patent document to make applicable to retrieval the patent extract stored in the patent bag database 104 from a terminal 101, it accelerates retrieval time. Moreover, in case application of the same class checks whether there is, for example in selection of patent application etc. in already make, in having searched the patent application specification whole sentence, retrieval processing takes a load and time amount, but according to this example, since the amount of documents for a check is cut down, suppression reduction of the increase of the activity man day which visual inspection takes is carried out.

[0025] In addition, although the input of the patent document stored in the floppy disk 105 is inputted from the floppy disk drive unit connected to the terminal 101 in the above-mentioned example, of course, you may make it input a patent document into a terminal through a network.

[0026]

[Effect of the Invention] As explained above, according to this invention, the effectiveness of the following publication is done so.

[0027] The 1st effectiveness of this invention is being able to reduce the burden and time amount which retrieval processing takes in retrieval processing of a patent document.

[0028] The reason is because the extract generated automatically by extracting information from a patent document is made applicable to retrieval in retrieval of a patent document in this invention.

[0029] The 2nd effectiveness of this invention is mitigable [the load and time amount of visual business of the document for retrieval].

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TECHNICAL PROBLEM

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[0009] Therefore, this invention is made in view of the above-mentioned trouble, and the purpose is in offering the patent extract automatic generation method which mitigates the load of retrieval processing and visual inspection processing by carrying out automatic creation and keeping an extract from a patent document, at the time of bag creation processing.

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MEANS

[Means for Solving the Problem] In order to attain said purpose, this invention creates the patent extract of a predetermined format at the time of patent bag processing, stores the created patent extract in it, and is made to search from an application, a drawing, and an epitome at it to the this stored extract.

[0011]

[Embodiment of the Invention] The gestalt of operation of this invention is explained. The patent extract creation automatic creation method of this invention is set in the gestalt of the desirable operation. A patent document storing means to classify for every documents, such as a document which indicated an application, the specification, the epitome, the drawing, the chemical formula, etc. from the patent document inputted into the terminal unit (101 of drawing 1), and to store in a patent bag database (104 of drawing 1) (102 of drawing 1), Predetermined information is extracted from the application outputted from said patent document storing means, an epitome, and drawing information, a patent extract is generated automatically, and it has a patent extract storing means (103 of drawing 1) to register said generated patent extract to said patent bag database. In addition, each above-mentioned means 102 and 103 are realizable with the program executed by computer which constitutes a terminal unit.

[0012] In the gestalt of operation of this invention, at the time of patent bag processing, automatic creation of a patent extract is performed from an application, a drawing, and an epitome, it is made to perform storing in a database, and mitigation of the load at the time of retrieval and compaction of the retrieval processing time can be aimed at by searching the created patent extract.

[0013] Moreover, since the contents can be simply checked in case the searched patent document is checked with a help, mitigation of an operator's load can be aimed at.

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EXAMPLE

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[0020] The patent document drawn up by the patent document storing task 102 is stored in the patent bag database 104 (** of drawing 2 R> 2).

[0021] The patent extract generated by the patent extract creation task 103 is stored in the patent bag database 104 (** of drawing 2).

[0022] As for the terminal application 101, the patent document storing task 102, and the patent extract storing task 103, it is desirable to use it by dialogic operation.

[0023] Moreover, in the patent bag database 103, it is supposed that it is more nearly accessible than a terminal 101.

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[0025] In addition, although the input of the patent document stored in the floppy disk 105 is inputted from the floppy disk drive unit connected to the terminal 101 in the above-mentioned example, of course, you may make it input a patent document into a terminal through a network.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is drawing showing the configuration of one example of this invention.

[Drawing 2] It is drawing for explaining actuation of one example of this invention.

[Description of Notations]

101 Terminal Application

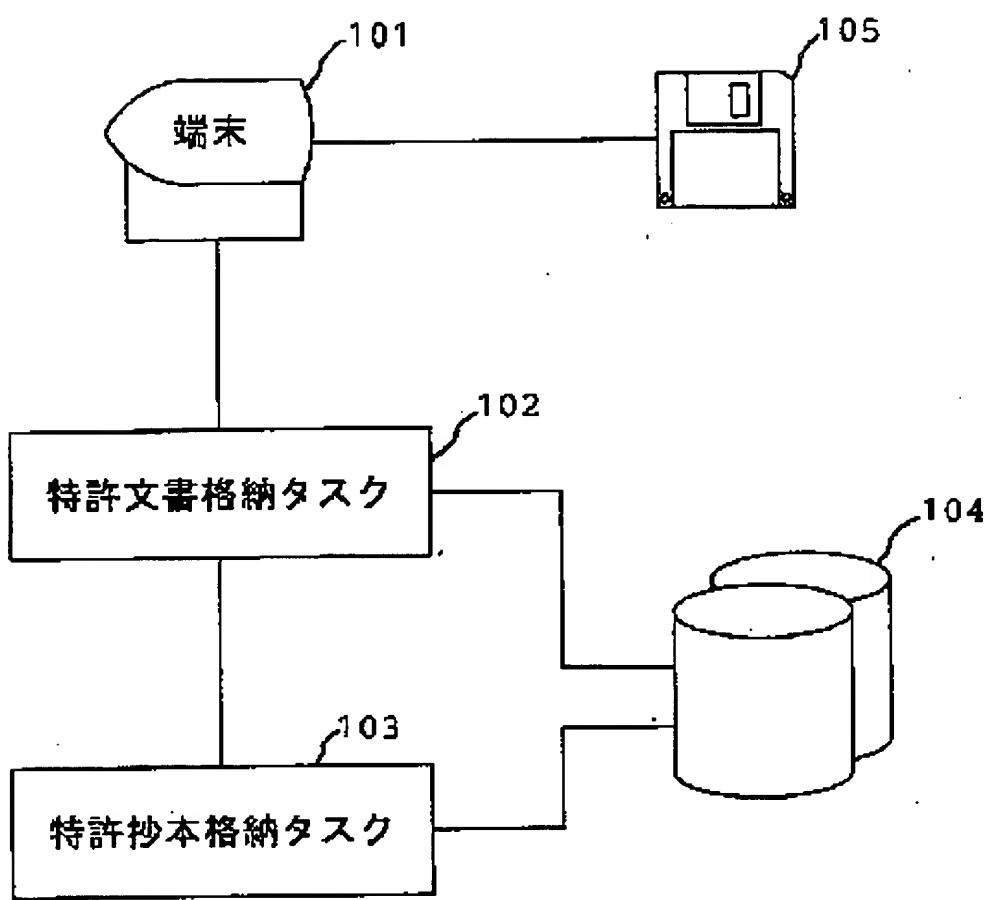
102 Patent Document Storing Task

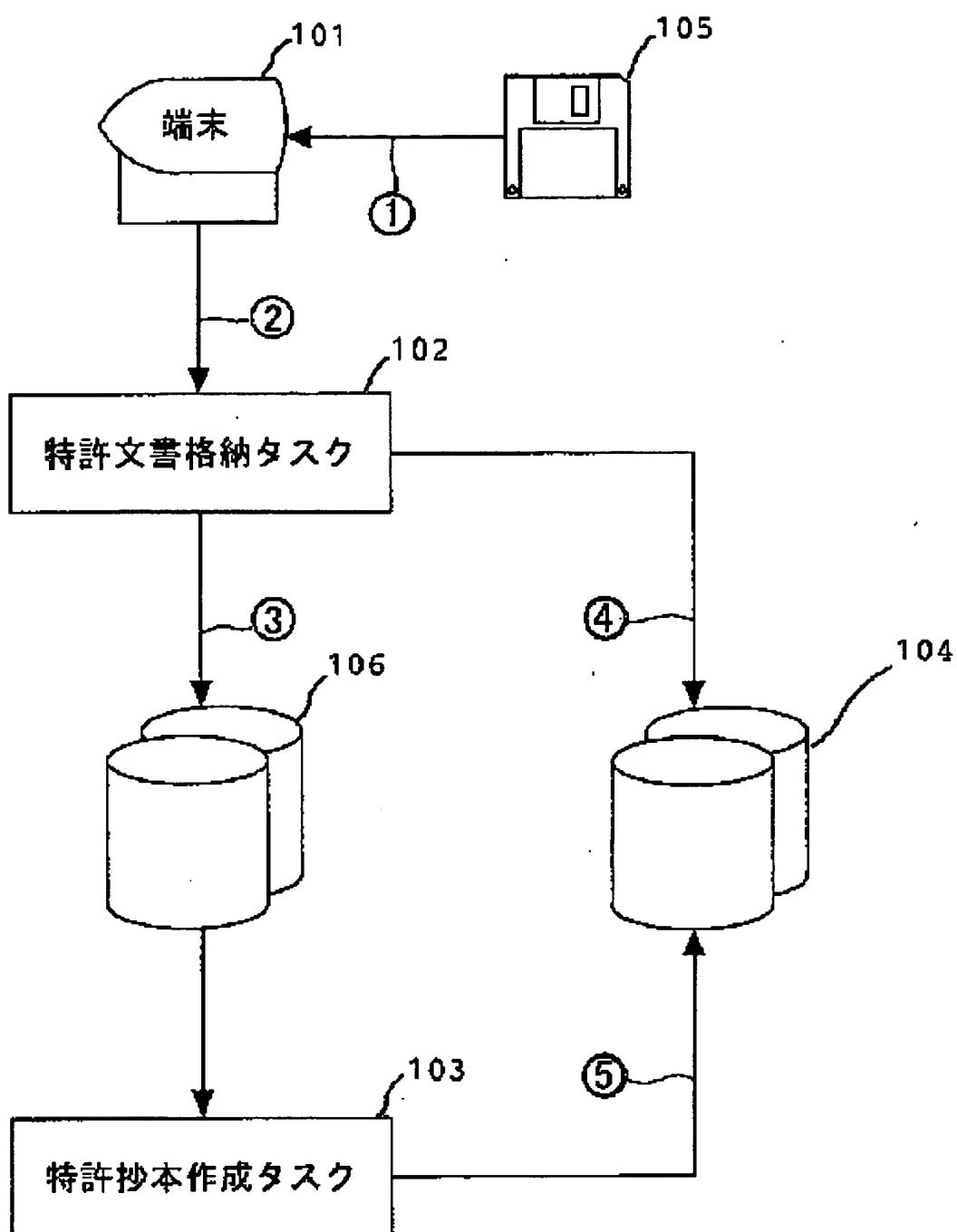
103 Patent Extract Storing Task

104 Patent Bag Database

105 Floppy Disk (FD)

[Translation done.]





PAT-NO: JP411085799A
DOCUMENT-IDENTIFIER: JP A
TITLE: SYSTEM FOR AUTOMATICALLY GENERATING PATENT
ABSTRACT
PUBN-DATE: March 30, 1999

INVENTOR-INFORMATION:

NAME
SAEGUSA, SHIGEKI

ASSIGNEE-INFORMATION:

NAME	COUNTRY
NEC CORP	N/A

APPL-NO: JP09257601

APPL-DATE: September 5, 1997

INT-CL (IPC): G06F017/30

ABSTRACT:

PROBLEM TO BE SOLVED: To provide an automatic patent abstract generation system for reducing the load of a retrieval processing and a view recognition processing by automatically generating and preserving an abstract from a patent document at the time of a file wrapper generation processing.

SOLUTION: A patent document storage means 102 classifying the patent documents inputted to a terminal equipment into the documents of an application, a specification, a summary and a drawing and storing them in a patent file wrapper data base 104 and a patent abstract storage means 103 extracting prescribed information from application, summary and drawing information, which are outputted from the patent document storage means,

automatically generating the patent abstract and registering the generated patent abstract to the patent file wrapper data base 104 are provided.

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CLAIMS

[Claim(s)]

[Claim 1] The patent extract creation automatic creation method characterized by having a means to store in a database the patent extract which extracted information from the application which constitutes said patent document, the epitome, and the drawing, carried out automatic creation and this created the patent extract on the occasion of bag creation processing of a patent document.

[Claim 2] A patent document storing means to classify for every document of an application, a specification, an epitome, and a drawing from the patent document inputted into the terminal unit on the occasion of package creation of a patent document, and to store in a patent bag database, The patent extract creation automatic creation method characterized by having a patent extract storing means to extract predetermined information from the application outputted from said patent document storing means, an epitome, and drawing information, to generate a patent extract automatically, and to register said generated patent extract to said patent bag database.

[Claim 3] (a) The patent document storing processing which classifies for every document of an application, a specification, an epitome, and a drawing from the inputted patent document, and is stored in a patent bag database, And extract predetermined information from the application outputted from the (b) aforementioned patent document storing means, an epitome, and drawing information, and a patent extract is generated automatically. The record medium which recorded the program which performs each processing of the above (a) of processing ** which registers said generated patent extract into said patent bag database, and (b) by computer.

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[0028] The reason is because the extract generated automatically by extracting information from a patent document is made applicable to retrieval in retrieval of a patent document in this invention.

[0029] The 2nd effectiveness of this invention is mitigable [the load and time amount of visual business of the document for retrieval].

[0030] The reason is because the amount of documents for a check is cut down in this invention.

[Translation done.]

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TECHNICAL FIELD

[Field of the Invention] About the method which generates a document automatically, especially, this invention is used for automatic creation of a patent extract, and relates to a suitable method.

[Translation done.]

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PRIOR ART

[Description of the Prior Art] Conventionally, in management by the electronization of a patent document, the whole patent document (an application, a specification, a drawing, epitome) was stored in file equipment, and retrieval processing was performed about the whole patent document. For this reason, the time amount which retrieval processing of a patent document takes with increase of the patent document kept increases.

[0003] Although that check to which application of the same kind is not carried out is performed in case bag processing is performed and subsequent patent application is performed in order to manage a patent document in patent application operating processing in a company etc., when retrieval processing takes a load and time amount, in having searched the patent application specification whole sentence at this time, the activity man day which visual inspection of a specification and a drawing takes also increases. In addition, although an abstract etc. can be obtained about the patent document after application public presentation, for example using service of patent information retrieval system, such as PATOLIS, information is not acquired about the patent application before application public presentation.

[Translation done.]

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EFFECT OF THE INVENTION

[Effect of the Invention] As explained above, according to this invention, the effectiveness of the following publication is done so.

[0027] The 1st effectiveness of this invention is being able to reduce the burden and time amount which retrieval processing takes in retrieval processing of a patent document.

[0028] The reason is because the extract generated automatically by extracting information from a patent document is made applicable to retrieval in retrieval of a patent document in this invention.

[0029] The 2nd effectiveness of this invention is mitigable [the load and time amount of visual business of the document for retrieval].

[0030] The reason is because the amount of documents for a check is cut down in this invention.

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] It described above, and as carried out, in the conventional approach, it has the trouble of the following publication.

[0005] The 1st trouble is that the retrieval processing time in retrieval processing of a patent document increases.

[0006] The reason is for the time amount and the load which processing takes to increase in order to perform retrieval processing to the whole document for retrieval.

[0007] The 2nd trouble is that the load and activity man day of visual inspection business of a retrieval relevance document increase.

[0008] The reason is for having to check the whole document, when checking the document applicable to retrieval visually.

[0009] Therefore, this invention is made in view of the above-mentioned trouble, and the purpose is in offering the patent extract automatic generation method which mitigates the load of retrieval processing and visual inspection processing by carrying out automatic creation and keeping an extract from a patent document, at the time of bag creation processing.

[Translation done.]

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MEANS

[Means for Solving the Problem] In order to attain said purpose, this invention creates the patent extract of a predetermined format at the time of patent bag processing, stores the created patent extract in it, and is made to search from an application, a drawing, and an epitome at it to the this stored extract.

[0011]

[Embodiment of the Invention] The gestalt of operation of this invention is explained. The patent extract creation automatic creation method of this invention is set in the gestalt of the desirable operation. A patent document storing means to classify for every documents, such as a document which indicated an application, the specification, the epitome, the drawing, the chemical formula, etc. from the patent document inputted into the terminal unit (101 of drawing 1), and to store in a patent bag database (104 of drawing 1) (102 of drawing 1), Predetermined information is extracted from the application outputted from said patent document storing means, an epitome, and drawing information, a patent extract is generated automatically, and it has a patent extract storing means (103 of drawing 1) to register said generated patent extract to said patent bag database. In addition, each above-mentioned means 102 and 103 are realizable with the program executed by computer which constitutes a terminal unit.

[0012] In the gestalt of operation of this invention, at the time of patent bag processing, automatic creation of a patent extract is performed from an application, a drawing, and an epitome, it is made to perform storing in a database, and mitigation of the load at the time of retrieval and compaction of the retrieval processing time can be aimed at by searching the created patent extract.

[0013] Moreover, since the contents can be simply checked in case the searched patent document is checked with a help, mitigation of an operator's load can be aimed at.

[Translation done.]

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EXAMPLE

[Example] The gestalt of operation of above-mentioned this invention is explained below with reference to a drawing about one example of this invention that it should explain to a detail further. Drawing 1 is drawing showing the configuration of one example of this invention. If drawing 1 is referred to, one example of this invention will be equipped with the terminal application 101, the drive equipment (FDD) of a floppy disk 105, the patent document storing task (program) 102, the patent extract storing task (program) 103, and the patent bag database 104, and will be constituted, and concurrent access of the patent bag database 104 will be made it is desirable and possible.

[0015] Drawing 2 is drawing for explaining actuation of one example of this invention. Actuation of one example of this invention is explained with reference to drawing 2 R> 2.

[0016] Reference of drawing 2 inputs the input of the patent document stored in the floppy disk 105 from the floppy disk drive unit connected to the terminal 101 (** of drawing 2 R> 2). A patent document consists of a document which indicated an application, the specification, the epitome, the drawing, or the chemical formula.

[0017] The patent document storing task 102 starts after a patent document input (** of drawing 2).

[0018] In the patent document storing task 102, division of the document unit of a patent document, a character code, etc. are changed, and it outputs to a file 106 (** of drawing 2).

[0019] In the patent extract creation task 103, from the document generated by the patent document storing task 102, an application, an epitome, and a drawing are read and a patent extract is generated. A patent extract can be constituted here including the application date extracted from the application, the name of invention, an artificer name, an applicant, the technical problem extracted from the epitome, a solution means, the drawing information on a selection Fig., etc.

[0020] The patent document drawn up by the patent document storing task 102 is stored in the patent bag database 104 (** of drawing 2 R> 2).

[0021] The patent extract generated by the patent extract creation task 103 is stored in the patent bag database 104 (** of drawing 2).

[0022] As for the terminal application 101, the patent document storing task 102, and the patent extract storing task 103, it is desirable to use it by dialogic operation.

[0023] Moreover, in the patent bag database 103, it is supposed that it is more nearly accessible than a terminal 101.

[0024] In this example, in order for retrieval of a patent document to make applicable to retrieval the patent extract stored in the patent bag database 104 from a terminal 101, it accelerates retrieval time. Moreover, in case application of the same class checks whether there is, for example in selection of patent application etc. in already make, in having searched the patent application specification whole sentence, retrieval processing takes a load and time amount, but according to this example, since the amount of documents for a check is cut down, suppression reduction of the increase of the activity man day which visual inspection takes is carried out.

[0025] In addition, although the input of the patent document stored in the floppy disk 105 is inputted from the floppy disk drive unit connected to the terminal 101 in the above-mentioned example, of

course, you may make it input a patent document into a terminal through a network.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is drawing showing the configuration of one example of this invention.

[Drawing 2] It is drawing for explaining actuation of one example of this invention.

[Description of Notations]

101 Terminal Application

102 Patent Document Storing Task

103 Patent Extract Storing Task

104 Patent Bag Database

105 Floppy Disk (FD)

[Translation done.]

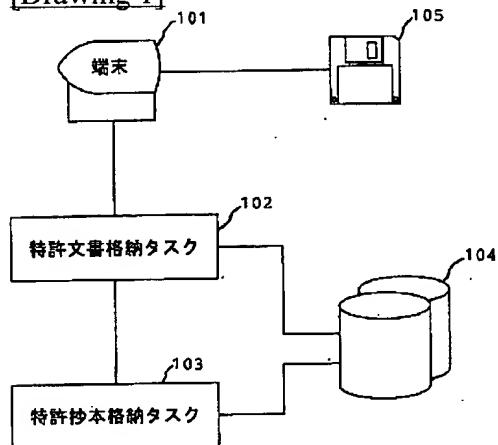
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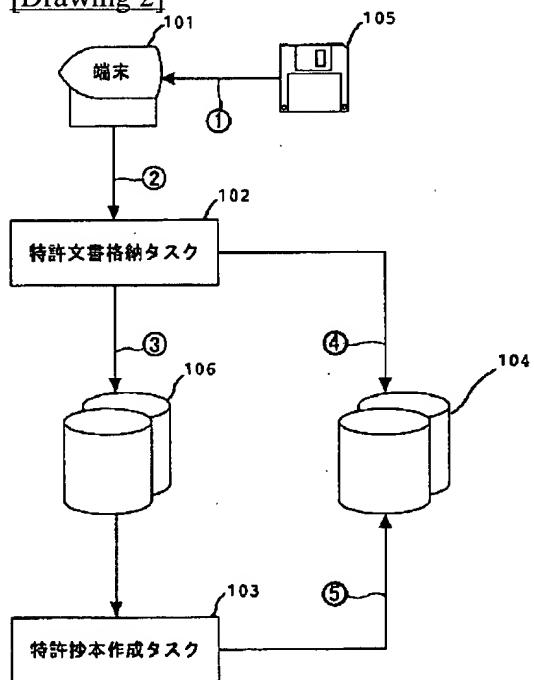
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DRAWINGS

[Drawing 1]



[Drawing 2]



[Translation done.]